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DATE: February 17, 2012

TO: Kelley Chase, EPA Region 3 OSC
Cynthia Caporale, EPA Region 3 OASQA

THROUGH: Ex. 4 - CBI

FROM: Ex. 4 - CBI

SUBJECT: VERIFICATION/COMPLETENESS CHECK – DIMOCK, PA LABORATORY DATA
File 12027B_rsk 175.pdf, File 12027b_tph_purgeable.pdf, File 12027b_tph_extractable.pdf

INTRODUCTION

On February 17, 2012, a review of the case narratives and corresponding certificates of analysis from the EPA R9 (Dissolved Gases, GRO, DRO/ORO Reports Posted Feb 13) was reviewed at the SERAS facility in accordance with the Follow-Up Verification/Completeness Check agreed upon during our teleconference on Wednesday 2/8/12.

The assumptions for this review include the following: 1) Case narratives from the Regional labs and/or subcontract labs have been reviewed in accordance with Regional or Environmental Services Assessment Team (ESAT) protocols and contain all pertinent and complete information to conduct the completeness check. SERAS will base this review on the information provided by the laboratory and not on an actual data package; and 2) SERAS will relay any “red” flags to the EPA R3 personnel to resolve and determine data usability.

OBSERVATIONS

In accordance with Table 1 – Field and QC Sampling Summary (Rev01 - 2/3/12), Table 2 – Sample Analytical Requirements Summary (Rev01 – 2/3/12), Methods for Groundwater and Surface Water Samples and the R9 SOPs for dissolved gases (SOP 325), Gasoline Range Organics (SOP380) and Diesel Range Organics (SOP 385), the following observations were noted and need to be clarified/resolved.

File 12027B_rsk 175.pdf

1. SOP 325 states that MS/MSD samples will be analyzed with each batch. No data are available to assess precision and accuracy in the laboratory report. In addition, the case narrative does not provide a reason as to why these samples were not analyzed. The COC record indicates that two 40-mL vials were provided for each sample.
2. It appears as if the sample results for methane were not qualified based on method, field or trip blank results. Using the National Functional Guidelines as a tool, methane results for samples FB01, FB02, HW19-P, TB01 and FB03 could be qualified as non-detect “U”.
3. It is assumed that all instrument QC (RSD, %D, retention time windows, LCV, SCV, etc) were performed and within the acceptance criteria listed in the SOP.

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1. The chain of custody record indicates that two 40-mL vials were submitted for analysis. It is unclear as to why the case narrative states that insufficient volume was submitted for the MS/MSD.

File 12027b_tph_extractable.pdf

2. The chain of custody record indicates that two 1-L bottles were submitted for analysis. It is unclear as to why the case narrative states that insufficient volume was submitted for the MS/MSD.

cc: **Ex. 4 - CBI** SERAS Project Officer
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Gary Newhart, ERT WAM
Ex. 4 - CBI SERAS Task Leader

SERAS-001-DSR-021712_Dimock_5